

TEST REPORT

Technical Report	(7221)099-0169	October 25th,2021
Date Received	October 7 th ,2021	Page 1 of 24
Factory Company Name: Factory Address:	AKPOLAT LOJISTIK TEKSTIL VE INS. ITH. IHR. SAN. TIC. I FEVZIPASA NEIGHBORHOOD DERMAN STREET NO:25-25 ISTANBUL/TURKEY	
Project No.:	N/A	
Client Reference No.:	N/A	
Sampling Method:	1001) Raw Wastewater – 6 hours - Time – weighted Composite	
	I002) Treated Wastewater – 6 hours - Time – weighted Composite	
Sample Pick Up Date:	October 7th,2021	
Wastewater Discharge to:	Municipal ETP	
On-Site Effluent Treatment Plant (ETP):	Yes	
Discharge Type:	Indirect Discharge	
Off-site ETP name (if	Istanbul Water and Sewerage Administration	
applicable):		
Off-site ETP address (if applicable):	Fevzipasa, 34580 Silivri/İstanbul	
Local Regulation: / Ordinance		Desarjinda Ongorulen
requirements related to	Atiksu Standartlari (See Appendix D)	
wastewater discharged are followed:		
Permit Validation Date:	The permit validation date is not valid.	
Parameters Exceeded Local	1A)Conventional Parameters (COD, Sulfide)	
Regulation	,,	
Legal compliance:	Not comply	
Conventional Parameters	Not comply with discharge license document	
Overall Category:		
Test Period:	October 8 th ,2021- October 22 nd ,2021	
Sample Description:		
	1001) Beige liquid Raw Wastewater	

Parameters exceeded maximum holding time:

Bureau Veritas Consumer Products Services, Inc. Yalçın Koreş Caddesi No:22 Erdinç Binaları A Blok 2. Kule 1. Kat 34209 Güneşli, İstanbul / Turkey Tel:+90.212.494 35 35 Fax:+90.212.494 35 60 email:info.turkey@bvcps.com.tr website: www.bureauveritas.com/cps

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof base upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or or orission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents

1001) Beige liquid- Raw Wastewater 1002) Beige liquid - Treated Wastewater

N/A



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<u>REMARK1</u>: Analysis of Table1 conventional parameters, except pH, temperature, heavy metals have subcontracted to local accredited laboratories. (Accreditation number no: AB-0363-T AB-0012-T AB-0241-T)

<u>REMARK2</u>: Please refer to discharge permission letter and discharge criteria of the offsite ETP attached at the end of this report.

REMARK

If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing

Technical enquiry-Chemical

 Kerem Can
 Kerem.can@bureauveritas.com

 Ayca Cevikus
 Ayca.cevikus@bureauveritas.com

This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes.

* The sampling is agreed with client.

PREPARED BY:

Ayca Cevikus MEA CDM Manager Zero Discharge & Higg Verification& Environmental

Kerem Can Deputy General Manager & Operation Manager

Junit



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Executive Summary

1A) Conventional	I001	I002
Temperature		N/A
TSS		
COD		
Total-N		N/A
pH Value		
Color [m ⁻¹] (436nm;		N/A
BOD ₅		N/A
Ammonium-N		N/A
Total-P	NR	N/A
AOX		N/A
Oil and Grease		N/A
Phenol		N/A
Coliform		N/A
Persistent Foam		N/A
ANIONS - Cyanide		N/A
ANIONS - Sulfide]	
ANIONS - Sulfite]	N/A
1B) Conventional Parameters – METALS	N/A	N/A

Note / Key :

- \square Meet discharge license criteria
- ■ Exceeding discharge license criteria
- NR Not Requested / Not required
 - N/A Not Applicable

ZDHC MRSL Substances	I001	1002
2A) APs and APEOs	0	0
2B) Chlorobenzenes and Chlorotoluenes	0	0
2C) Chlorophenols	0	0
2D) Azo Dyes	0	0
2E) Carcinogenic Dyes	0	0
2F) Disperse Dyes	0	0
2G) Flame Retardants	0	0
2H) Glycols	0	0
2I) Halogenated Solvents	0	0
2J) Organotin Compounds	0	0
2K) Perfluorinated and Polyfluorinated	0	0
2L) Phthalates	0	0
2M) Poly Aromatic Hydrocarbons	0	0
2N) Volatile Organic Compounds	0	0

Note / Key :

- • Detected
- o-Not Detected
- NR Not Requested
- N/A Not Applicable



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Objective

The environment samples were tested for below parameters.

1A) Conventional Parameters 1B) Conventional Parameters - METALS 2A) APs and APEOs 2B) Chlorobenzenes and Chlorotoluenes 2C) Chlorophenols 2D) Azo Dyes 2E) Carcinogenic Dyes 2F) Disperse Dyes 2G) Flame Retardants 2H) Glycols 2I) Halogenated Solvents 2J) Organotin Compounds 2K) Perfluorinated and Polyfluorinated Chemicals 2L) Phthalates 2M) Poly Aromatic Hydrocarbons 2N) Volatile Organic Compounds

Sampling Plan

Basically, two environment samples were sampled per factory, including 1) Raw Wastewater and 2) Discharged Wastewater Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

Method of sampling used is time-weighted composite sample (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.

Remark :

- Sampling procedure is with reference to below standards:

1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.

2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.

3) ISO 5667-3:2003, Water Quality - Sampling - Part 3: Guidance on the Preservation and Handling of Water Samples.

4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.

- Field data records are attached in Appendix C.



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Test Result

1A) Conventional Parameters

Temperature

Test Method : Measurement by U. S. EPA170.1

Tested Item(s)	Result	Unit	Conclusion
1002	▲2 / max. 33 °C	deg. C	DATA

Note:

deg. C = degree Celsius (°C)

Discharge License Criteria: Not Applicable

Total Suspended Solids (TSS)

Test Method : Reference to APHA 2540 D

Tested Item(s)	Result	Unit	Conclusion
1002	230 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 500 mg/L

Chemical Oxygen Demand (COD)

Test Method : Reference to APHA 5220 D

Tested Item(s)	Result	Unit	Conclusion
1002	1473.7 (Not comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 1000 mg/L

Total Nitrogen (Total-N)

Test Method : Reference to SM 4500-Norg:B, SM 4500-NO3:E

Tested Item(s)	Result	Unit	Conclusion
I002	43.08	mg/L	DATA

Note:

mg/L = milligram per liter



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<u>pH Value</u>

Test Method : Reference to U. S. EPA 150.1

-	Unit	Result	
Test Item(s)	-	I002	
Parameter -		-	
Temp. of sample	deg. C	25	
pH value of sample	-	7.89 (Comply with discharge license)	
Conclusion	-	DATA	

Note:

Temp. = Temperature deg. C = degree Celsius (°C)

Discharge License Criteria: 6-12

Color [m⁻¹] (436nm; 525nm; 620nm)

Test Method : With reference to ISO 7887-B

Tested Item(s)	Result	Unit	Conclusion
I002	14.8; 8.8 ; 6	m ⁻¹	DATA

Note:

Discharge License Criteria: Not Applicable

Biochemical Oxygen Demand (BOD₅)

Test Method : Reference to APHA 5210B (5 days)

Tested Item(s)	Result	Unit	Conclusion
1002	603.5	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Ammonium Nitrogen

Test Method : Reference to APHA 4500 NH₃ B,F

Tested Item(s)	Result	Unit	Conclusion
I002	0.7	mg/L	DATA

Note:

mg/L = milligram per liter



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Total Phosphorus (Total-P)

Test Method : Reference to APHA 4500-P B,C

Tested Item(s)	Result	Unit	Conclusion
I002	17.5	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Adsorbable Organic Halogens (AOX)

Test Method : Reference to ISO 9562

Tested Item(s)	Result	Unit	Conclusion
I002	1.05	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Oil and Grease

Test Method : Reference to ISO 9377-2

Tested Item(s)	Result	Unit	Conclusion
1002	<0.003	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

Phenol

Test Method : Reference to APHA 5530 B,D

Tested Item(s)	Result	Unit	Conclusion
1002	<0.1	mg/L	DATA

Note:

mg/L = milligram per liter



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Coliform

Test Method : Reference to ISO 9308-1

Tested Item(s)	Result	Unit	Conclusion
I002	1900	bacteria/ 100 mL	DATA

Note:

bacteria/100 mL = bacteria per 100 milliliters Discharge License Criteria: Not Applicable

Remark: Due to the colonies is huge, result of coliform content is base on sample having dilution factor 100 times

Persistent Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
1002	No foam	-	DATA

Discharge License Criteria: Not Applicable

ANIONS - Cyanide

Test Method : Reference to SM 4500-CN C/ SM 4500-CN E

Tested Item(s)	Result	Unit	Conclusion
1002	<0.01 (Comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: Not Applicable

ANIONS - Sulfide

Test Method

: Reference to APHA 4500 S²–D

Tested Item(s)	Result	Unit	Conclusion
1002	10 (Not comply with discharge license)	mg/L	DATA

Note:

mg/L = milligram per liter

Discharge License Criteria: 2 mg/L

ANIONS - Sulfite

Test Method : Reference to SM 4500-SO3-2 C

Tested Item(s)	Result	Unit	Conclusion
I002	7.44	mg/L	DATA

Note:

mg/L = milligram per liter



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Heavy Metals	I001 (mg/L)	I002 (mg/L)
Antimony(Sb)		
Discharge License Criteria: Not applicable	0.1097	0.2577
Chromium(Cr), total Discharge License Criteria:	0.0241	0.022
Not applicable Cobalt(Co)		
Discharge License Criteria: Not applicable	ND	ND
Copper(Cu)	0.0343	0.0194
Discharge License Criteria: Not applicable Nickel (Ni)		
Discharge License Criteria: Not applicable	ND	ND
Silver (Ag)	ND	ND
Discharge License Criteria: Not applicable	ND	
Zinc(Zn) Discharge License Criteria: Not applicable	0.2423	0.2158
Arsenic (As) Discharge License Criteria:	0.0028	ND
Not applicable Cadmium(Cd)		
Discharge License Criteria: Not applicable	0.0001	0.0001
Chromium VI(CrVI) Discharge License Criteria:	ND	ND
Not applicable Lead(Pb)		
Discharge License Criteria: Not applicable	0.0012	0.0011
Mercury (Hg) Discharge License Criteria: Not applicable	ND	ND

1B) Conventional Parameters - METALS



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Others Priority Chemical Groups

	I001 (ug/L)	I002 (ug/L)
2A) APs and APEOs	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	ND	ND
2C) Chlorophenols	ND	ND
2D) Azo Dyes	ND	ND
2E) Carcinogenic Dyes	ND	ND
2F) Disperse Dyes	ND	ND
2G) Flame Retardants	ND	ND
2H) Glycols	ND	ND
2I) Halogenated Solvents	ND	ND
2J) Organotin Compounds	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	ND	ND
2L) Phthalates	ND	ND
2M) Poly Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Remark :

- Test method, reporting limit and list of chemical are summarized in tables of Appendix A
- ND = Not detected (Please refer to reporting limit shown in Appendix A.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion.



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APPENDIX A - Photo of the Sample/ Sampling Location





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APPENDIX B

			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Nonylphenol NP, mixed isomers	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane
2A. Alkylphenol (AP) and	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)
Alkylphenol Ethoxylates (APEOs): including all isomers	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	or LC/MSMS for n=1,2) APEO 1-18
	Monochlorobenzene	108-90-7	0.2	0.2	
	1,2-Dichlorobenzene	95-50-1	0.2	0.2	
	1.3-Dichlorobenzene	541-73-1	0.2	0.2	
	1,4-Dichlorobenzene	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	
	1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	
	1,2,3,5-Tetraclorobenzene	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	
	Pentachlorobenzene	608-93-5	0.2	0.2	
	Hexachlorobenzene	118-74-1	0.2	0.2	
	2-Chlorotoluene	95-49-8	0.2	0.2	
	3-Chlorotoluene	108-41-8	0.2	0.2	USEPA 8260B,8270D.
2B. Chlorobenzenes	4-Chlorotoluene	106-43-4	0.2	0.2	Dichloromethane
and Chlorotoluenes	2,3-Dichlorotoluene	32768-54-0	0.2	0.2	extraction followed by
	2,4-Dichlorotoluene	95-73-8	0.2	0.2	GC/MS
	2,5-Dichlorotoluene	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene	118-69-4	0.2	0.2	
	3,4-Dichlorotoluene	95-75-0	0.2	0.2	
	3.5-Dichlorotoluene	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	1
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	1
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	1
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	1
	Pentachlorotoluene	877-11-2	0.2	0.2	1
	2-Chlorophenol	95-57-8	0.5	0.05	
	3-Chlorophenol	108-43-0	0.5	0.05	USEPA 8270 D
	4-Chlorophenol	106-48-9	0.5	0.05	Solvent extraction,
2C. Chlorophenols	2,3-Dichlorophenol	576-24-9	0.5	0.05	derivatisation with
	2,4-Dichlorophenol	120-83-2	0.5	0.05	KOH, acetic anhydride
	2,5-Dichlorophenol	583-78-8	0.5	0.05	followed by GC/MS

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Report Limit CAS No. Sludge method (mg/kg) (ug/L)/(ppb) 0.05 2,6-Dichlorophenol 87-65-0 0.5 3,4-Dichlorophenol 95-77-2 0.5 0.05 591-35-5 0.05 3,5-Dichlorophenol 0.5 15950-66-0 0.5 0.05 2,3,4-Trichlorophenol 2,3,5-Trichlorophenol 933-78-8 0.5 0.05 2,3,6-Trichlorophenol 933-75-5 0.5 0.05 95-95-4 2,4,5-Trichlorophenol 0.5 0.05 88-06-2 0.5 0.05 2,4,6-Trichlorophenol 3,4,5-Trichlorophenol 609-19-8 0.5 0.05 2,3,4,5-Tetrachlorophenol 4901-51-3 0.5 0.05 2,3,4,6-Tetrachlorophenol 58-90-2 0.05 0.5 2,3,5,6-Tetrachlorophenol 935-95-5 0.5 0.05 Pentachlorophenol (PCP) 87-86-5 0.5 0.05 4,4`-Methylene-bis-(2-101-14-4 0.1 0.2 chloro-aniline) 4,4'-methylenedianiline 0.1 101-77-9 0.2 4,4⁻Oxydianiline 101-80-4 0.1 0.2 4-Chloroaniline 106-47-8 0.1 0.2 3,3⁻Dimethoxybenzidine 119-90-4 0.1 0.2 119-93-7 3,3⁻Dimethylbenzidine 0.1 0.2 0.2 6-methoxy-m-toluidine (p-0.1 120-71-8 Cresidine) 0.1 2,4,5-Trimethylaniline 137-17-7 0.2 4,4⁻Thiodianiline 139-65-1 0.2 0.1 4-Aminoazobenzene 60-09-3 0.1 0.2 4-Methoxy-m-0.2 EN 14362. 615-05-4 0.1 2D. Dyes - Azo phenylenediamine Reduction step with 4,4`-Methylene-di-o-0.2 (Forming Restricted Sodiumdithionite, 838-88-0 0.1 Amines) toluidine solvent extraction. 87-62-7 0.2 2,6-Xylidine 0.1 GC/MS or LC/MS 90-04-0 0.2 o-Anisidine 0.1 0.2 2-Naphthylamine 91-59-8 0.1 91-94-1 0.2 3,3⁻Dichlorobenzidine 0.1 4-Aminodiphenyl 92-67-1 0.1 0.2 92-87-5 0.2 Benzidine 0.1 95-53-4 0.2 o-Toluidine 0.1 2,4-Xylidine 95-68-1 0.1 0.2 4-Chloro-o-toluidine 95-69-2 0.1 0.2 0.2 4-Methyl-m-95-80-7 0.1 phenylenediamine 97-56-3 0.1 o-Aminoazotoluene 0.2 5-nitro-o-toluidine 99-55-8 0.2 0.1 C.I. Direct Black 38 1937-37-7 500 10 C.I. Direct Blue 6 2602-46-2 500 10 500 C.I. Acid Red 26 3761-53-3 10 500 C.I. Basic Red 9 569-61-9 10 573-58-0 500 2E. Dyes-C.I. Direct Red 28 10 Liquid Extraction Carcionogenic or C.I. Basic Violet 14 632-99-5 500 10 LC/MS Equivalent Concern C.I. Disperse Blue 1 2475-45-8 500 10 C.I. Disperse Blue 3 2475-46-9 500 10 C.I. Basic Blue 26 (with 10 500 2580-56-5 Michler's Ketone > 0.1%) 569-64-2 500 C.I. Basic Green 4 10

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	(malachite green chloride) C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	10	
	C.I. Basic Green 4(malachite green)	10309-95-2	500	10	
	Disperse Orange 11	82-28-0	500	10	
	Disperse Yellow 1	119-15-3	50	2	-
	Disperse Blue 102	12222-97-8	50	2	-
	Disperse Blue 106	12223-01-7	50	2	-
	Disperse Yellow 39	12236-29-2	50	2	-
	Disperse Orange 37/59/76	13301-61-6	50	2	-
	Disperse Brown 1	23355-64-8	50	2	-
	Disperse Orange 1	2581-69-3	50	2	-
	Disperse Yellow 3	2832-40-8	50	2	4
2F. Dyes-disperse	Disperse Red 11	2872-48-2	50	2	Liquid Extraction
(sensitizing)	Disperse Red 1	2872-52-8	50	2	LC/MS
	Disperse Red 17	3179-89-3	50	2	4
	Disperse Blue 7	3179-90-6	50	2	
	Disperse Blue 26	3860-63-7	50	2	
	Disperse Yellow 49	54824-37-2	50	2	
	Disperse Blue 35	12222-75-2	50	2	
	Disperse Blue 124	61951-51-7	50	2	4
	Disperse Yellow 9	6373-73-5	50	2	
	Disperse Orange 3	730-40-5	50	2 2	
	Disperse Blue 35 Tris(2-chloroethyl)	56524-77-7 115-96-8	50 5	1	
	phosphate (TCEP) Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	1	
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)	126-72-7	5	1	
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	1	
	Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	1	
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	ISO 22032, USEPA527
2G. Flame	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1	5	1	and USEPA8321B. Dichloromethane
Retardants	Polybromobiphenyls (PBBs)	59536-65-1	5	1	extraction GC/MS or LC/MS(-MS)
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1	
	Hexabromocyclododecane (HBCDD)	3194-55-6	5	1	
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	5	1]
	Tris(1,3-dichloro- isopropyl) phosphate (TDCP)	13674-87-8	5	1	
	Short chain chlorinated paraffins (SCCPs) (C10- C13)	85535-84-8	5	1	
2H. Glycols	Bis(2-methoxyethyl)-ether	111-96-6	50	10	US EPA 8270

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Chemicals (PFCs)acid (PFBS)Non-ionic PFCPerfluoro-n-hexanoic acid (PFHxA)307-24-40.010.10e:2 FTOH678 30 711				Repor	t Limit		
2.4 thoxyethyl acetate 111-15-9 50 10 Ethylene glycol dimethyl ether 110-71-4 50 10 2methoxyethanol 109-86-4 50 10 2methoxyethanol 109-86-4 50 10 2methoxytplacetate 70657-70-4 50 10 2methoxytplacetate 70657-70-4 50 10 Triethylene glycol dimethyl ether 112-49-2 50 10 1.2.Dichloroethylene 79-01-6 1 2 Trichloroethylene 79-01-6 1 2 Trichloroethylene 79-01-6 1 2 Trichloroethylene 79-01-6 1 2 Trichloroethylene 79-01-6 1 2 Mono-, di- and tri- methyltin derivatives Multiple 0.01 0.2 Mono-, di- and tri- methyltin Multiple 0.01 0.2 Mono-, di- and tri- methyltin Multiple 0.01 0.2 Mono-, di- and tri- methyltin Multiple 0.01 0.2 <td< td=""><td>Group</td><td>parameter)</td><td></td><td>ater (ug/L)/(ppb)</td><td>(mg/kg) /(ppm)</td><td>method</td></td<>	Group	parameter)		ater (ug/L)/(ppb)	(mg/kg) /(ppm)	method	
Ethylene glycol dimethyl ether Dot Dot Dot 2-methoxyethylacetate 110-71-4 50 10 2-methoxyethylacetate 110-49-6 50 10 2-methoxyethylacetate 70657-70-4 50 10 2-methoxyproplacetate 70657-70-4 50 10 12.Dichloroethane 107-06-2 1 2 Methylene Chloride 75-09-2 1 2 Trichoroethylene 12-71-84 1 2 Mono-, di- and tri- methyltin derivatives Multiple 0.01 0.2 Mono-, di- and tri-obuyltin Multiple 0.01 0.2 Dimethyltin Multiple 0.01 0.2 Mono-, di- and tri-octyltin Multiple 0.01 0.2 Dimethyltin Multiple 0.01 0.2 Dirvataisatio							
ether 110-17-4 50 10 2-methoxyethanol 109-86-4 50 10 2-methoxyethacetate 110-49-6 50 10 2-methoxyethylacetate 100-49-6 50 10 2-methoxyethylacetate 107-06-2 1 2 1.2-Dichloreethane 107-06-2 1 2 1.2-Dichloreethylene 176-50-2 1 2 Trichoroethylene 170-50-2 1 2 Mono-, di- and tri- methylin Multiple 0.01 0.2 Mono-, di- and tri- methylin Multiple 0.01 0.2 Mono-, di- and tri- Multiple 0.01 0.2 Direthylin Mono-, di- and tri- Multiple 0.01 0.2 Direthylin Mono-, di- and tri-octylin Multiple 0.01 0.2 Direthylin Mono-, di- and tri-phenylin Multiple 0.01 0.2 Direthylin Monobutylin Multiple 0.01 0.2 Direthylin <			111-15-9	50	10	LC/MS	
2-methoxyethylacetate 110-49-6 50 10 2-methoxypropylacetate 70657-70-4 50 10 Trichlylene glycol dimethyl ether 112-49-2 50 10 21. Halogenated Solvents 1.2-Dichloroethane 107-06-2 1 2 Methylene Choride 75-09-2 1 2 Headspace GC/MS or Purgeand-Trap-GC/MS Trichloroethylene 127-18-4 1 2 Purgeand-Trap-GC/MS Mono-, di- and tri- methyltin derivatives Multiple 0.01 0.2 Mono-, di- and tri-butyltin derivatives Multiple 0.01 0.2 Mono-, di- and tri-octyltin derivatives Multiple 0.01 0.2 Mono-, di- and tri-octyltin Mono-tyltin Multiple 0.01 0.2 Dimethyltin Multiple 0.01 0.2 Nal(C2H5) GC/MS			110-71-4	50	10		
2-methoxypropylacetate 70657-70-4 50 10 Triethylene glycol dimethyl ether 112-49-2 50 10 21. Halogenated Solvents 1.2-Dichloroethane 107-06-2 1 2 Methylene Chloride 75-09-2 1 2 Headspace GC/MS or Purgeand-Trap-GC/MS Trichloroethylene 127-18-4 1 2 Purgeand-Trap-GC/MS Tetrachloroethylene 127-18-4 1 2 Purgeand-Trap-GC/MS Mono-, di- and tri-butyltin derivatives Multiple 0.01 0.2 0.2 Mono-, di- and tri-octyltin derivatives Multiple 0.01 0.2 0.2 Mono-, di- and tri-octyltin derivatives Multiple 0.01 0.2 0.2 Mono-, di- and tri-octyltin derivatives Multiple 0.01 0.2 0.2 Mono-, di- and tri-octyltin Multiple 0.01 0.2 0.2 Mono-, di- and tri-octyltin Multiple 0.01 0.2 0.2 Mono-, di- and tri-octyltin Multiple 0.01 0.2 0.2		2-methoxyethanol	109-86-4	50	10		
Triethylene glycol dimethyl ether 112-49-2 50 10 2I. Halogenated Solvents 1.2-Dickloroethane 107-06-2 1 2 2I. Halogenated Solvents Methylene Chloride 75-09-2 1 2 Trickloroethylene 79-01-6 1 2 Parachoroethylene 79-01-6 Trickloroethylene 79-01-6 1 2 Parachoroethylene 79-01-6 Trickloroethylene 127-18-4 1 2 Parachoroethylene 79-01-6 Mono-, di- and tri-butyltin derivatives Multiple 0.01 0.2 Parachoroethylene Mono-, di- and tri-butyltin derivatives Multiple 0.01 0.2 Diversation with Nono-methyltin Mono-, di- and tri-butyltin Multiple 0.01 0.2 Diversation with Nonoethyltin Diversation with Natiople Mono-, ti-and tri-butyltin Multiple 0.01 0.2 Diversation with Nonoethyltin Mono-, ti-and tri-butyltin Multiple 0.01 0.2 Diversation with Natiople Natiople Dibutyltin Multiple 0.0				50	10		
ether 112-49-2 50 10 21. Halogenated Solvents 1,2-Dichloroethane 107-06-2 1 2 1,2-Dichloroethylene 75-09-2 1 2 Headspace GC/MS or Purgeand-Trap-GC/MS Trichloroethylene 127-18-4 1 2 Purgeand-Trap-GC/MS Mono-, di- and tri- methyltin derivatives Multiple 0.01 0.2 Mono-, di- and tri-phenyltin derivatives Multiple 0.01 0.2 Monophenyltin Multiple 0.01 0.2 Dimethyltin Multiple 0.01 0.2 Monophenyltin			70657-70-4	50	10		
21. Halogenated Solvents Methylene Chloride 75-09-2 1 2 USEPA \$260B Trichloroethylene 79-01-6 1 2 Headspace GC/MS or Purgeand-Trap-GC/MS Tetrachloroethylene 127-18-4 1 2 Purgeand-Trap-GC/MS Mono-, di- and tri- methyltin derivatives Multiple 0.01 0.2 Purgeand-Trap-GC/MS Mono-, di- and tri-phenyltin derivatives Multiple 0.01 0.2 Purgeand-Trap-GC/MS Mono-, di- and tri-octyltin derivatives Multiple 0.01 0.2 Purgeand-Trap-GC/MS Mono-, di- and tri-octyltin derivatives Multiple 0.01 0.2 Purgeand-Trap-GC/MS Mono-, di- and tri-octyltin derivatives Multiple 0.01 0.2 Purgeand-Trap-GC/MS Mono-, di- and tri-octyltin Multiple 0.01 0.2 Purgeand-Trap-GC/MS Mono-, di- and tri-octyltin Multiple 0.01 0.2 Purgeand-Trap-GC/MS Mono-, di- and tri-octyltin Multiple 0.01 0.2 Purgeand-Trap-GC/MS Trimethyltin Multiple 0.01 0.2			112-49-2	50	10		
21. Halogenated SolventsMethylene Trichloroethylene79-01-612Headspace GC/MS or Purgeand-Trap-GC/MSTichloroethylene methyltin derivatives127-18-412Headspace GC/MS or Purgeand-Trap-GC/MSMono-, di - and tri- methyltin derivativesMultiple0.010.20.2Mono-, di - and tri-benyltin derivativesMultiple0.010.2Mono-, di - and tri-otryltin derivativesMultiple0.010.2Mono-, di - and tri-otryltin derivativesMultiple0.010.2DimethyltinMultiple0.010.2Derivatisation with NaB(C2H5) GC/MSDibutyltinMultiple0.010.2Derivatisation with NaB(C2H5) GC/MSMonobutyltinMultiple0.010.2Derivatisation with NaB(C2H5) GC/MSMonophenyltinMultiple0.010.2Derivatisation with NaB(C2H5) GC/MSMonobutyltinMultiple0.010.2Derivatisation (modified)DibutyltinMultiple0.010.2Derivatisation (modified)DibutyltinMultiple0.010.2Derivatisation (modified)DibutyltinMultiple0.010.2<		1,2-Dichloroethane	107-06-2	1	2		
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2J. Organotin Compounds Image: Compound Stress Multiple 0.01 0.2 Mono-, di - and tri-butyltin derivatives Multiple 0.01 0.2 Mono-, di - and tri-butyltin derivatives Multiple 0.01 0.2 Mono-, di - and tri-phenyltin derivatives Multiple 0.01 0.2 Mono-, di - and tri-octyltin derivatives Multiple 0.01 0.2 Mono-, di - and tri-octyltin Monobutyltin Multiple 0.01 0.2 Dimethyltin Multiple 0.01 0.2 Dibutyltin Multiple 0.01 0.2 Monooctyltin Multiple 0.01 0.2 Triphenyltin Multiple 0.01 0.2 Dioctyltin Multiple 0.01			79-01-6	1	2		
2J. Organotin Compoundsmethyltin derivativesMultiple0.010.2Mono-, di - and tri-butyltin derivativesMultiple0.010.2Mono-, di - and tri-octyltin derivativesMultiple0.010.2Mono-, di - and tri-octyltin derivativesMultiple0.010.2Mono-, di - and tri-octyltin derivativesMultiple0.010.2MonomethyltinMultiple0.010.2DimethyltinMultiple0.010.2DimethyltinMultiple0.010.2DimethyltinMultiple0.010.2MonophenyltinMultiple0.010.2TributyltinMultiple0.010.2DibutyltinMultiple0.010.2MonophenyltinMultiple0.010.2MonophenyltinMultiple0.010.2MonophenyltinMultiple0.010.2DiotcyltinMultiple0.010.2MonocyltinMultiple0.010.2Perfluoroctanesulfonic acid (PFOS)1763-23-10.010.10Perfluoron-octanoic acid (PFOA)335-67-10.010.10Perfluorobutanesulfonic acid (PFOS)29420-49-3, 29420-43-30.010.10Perfluorobutanesulfonic acid (PFBS)29420-49-3, 29420-43-30.010.10Perfluoro-n-hexanoic acid (PFHXA)307-24-40.010.10(FTOH): derivatisationVib acetic anhydride,678-30.7111 <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>Purgeand-Trap-GC/MS</td>				1	2	Purgeand-Trap-GC/MS	
2J. Organotin CompoundsMono-, di- and tri-butyltin derivativesMultiple0.010.2Mono-, di- and tri-penyltin derivativesMultiple0.010.2Mono-, di- and tri-octyltin derivativesMultiple0.010.2Mono-, di- and tri-octyltin derivativesMultiple0.010.2Mono-, di- and tri-octyltin derivativesMultiple0.010.2MonomethyltinMultiple0.010.2DimethyltinMultiple0.010.2DimethyltinMultiple0.010.2DimethyltinMultiple0.010.2DibutyltinMultiple0.010.2DibutyltinMultiple0.010.2DibutyltinMultiple0.010.2MonooctyltinMultiple0.010.2MonooctyltinMultiple0.010.2DioctyltinMultiple0.010.2DioctyltinMultiple0.010.2Perfluorooctanesulfonic acid (PFOS)1763-23-10.010.10Perfluoroo-n-octanoic acid (PFGA)335-67-10.010.10Perfluoroo-n-ctanoic acid (PFOA)29420-49-3, 29420-43-30.010.10Perfluoroo-n-hexanoic acid (PFHXA)307-24-40.010.10(FTOH): derivatisationWith acetic anhydride, (PFTHXA)678-30.7111			Multiple	0.01	0.2		
2J. Organotin Compoundsderivatives0.010.22J. Organotin CompoundsDimethyltinMultiple0.010.2Mono-, di- and tri-octyltin derivativesMultiple0.010.2DimethyltinMultiple0.010.2DimethyltinMultiple0.010.2DimethyltinMultiple0.010.2DimethyltinMultiple0.010.2DibutyltinMultiple0.010.2DibutyltinMultiple0.010.2DibutyltinMultiple0.010.2DiphenyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2TriotyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2Perfluoro-n-octanoic acid (PFOA)335-67-10.010.10Perfluoro-n-netanoic acid (PFGA)29420-49-3, 29420-43-30.010.10Perfluoro-n-netanoic acid (PFHXA)307-24-40.010.100.10Perfluoro-n-netanoic acid (PFHXA)307-24-40.010.10With acetic anhydride,		Mono-, di- and tri-butyltin	Multiple	0.01	0.2	•	
2J. Organotin CompoundsMono-, di- and tri-octyltin derivativesMultiple0.010.22J. Organotin CompoundsMonomethyltinMultiple0.010.2DimethyltinMultiple0.010.2TrimethyltinMultiple0.010.2TrimethyltinMultiple0.010.2DibutyltinMultiple0.010.2DibutyltinMultiple0.010.2DibutyltinMultiple0.010.2TributyltinMultiple0.010.2MonophenyltinMultiple0.010.2DiphenyltinMultiple0.010.2TriphenyltinMultiple0.010.2DioctyltinMultiple0.010.2TrioctyltinMultiple0.010.2Perfluoroctanesulfonic acid (PFOS)1763-23-10.010.10Perfluorobutanesulfonic acid (PFOS)29420-49-3, 29420-43-30.010.10Perfluoro-n-hexanoic acid (PFHxA)307-24-40.010.10S2 LFOM678-30.7111			Multiple	0.01	0.2		
2J. Organotin CompoundsDimethyltinMultiple0.010.2ISO 17353 Derivatisation with NaB(C2H5) GC/MSCompoundsTrimethyltinMultiple0.010.2Derivatisation with NaB(C2H5) GC/MSMonobutyltinMultiple0.010.2DibutyltinMultiple0.010.2DibutyltinMultiple0.010.2DibutyltinMultiple0.010.2MonophenyltinMultiple0.010.2DibutyltinMultiple0.010.2DiphenyltinMultiple0.010.2DibutyltinMultiple0.010.2DioctyltinMultiple0.010.2DibotyltinMultiple0.010.2DioctyltinMultiple0.010.2DibotyltinMultiple0.010.2Perfluoroctanesulfonic acid (PFOS)1763-23-10.010.10DIN 38407-42 (modified)Perfluoron-n-ctanoic acid (PFOA)335-67-10.010.10DIN 38407-42 (modified)Perfluoron-n-hexanoic acid (PFOA)29420-49-3, 29420-43-30.010.10DIN 38407-42 (modified)Perfluoron-n-hexanoic acid (PFHXA)307-24-40.010.10DIN 38407-42 (modified)Non-ionic PFCFTOH678-30.711Non-ionic PFC		Mono-, di- and tri-octyltin	Multiple	0.01	0.2]	
2). Organotin CompoundsDimethyltinMultiple0.010.2Derivatisation with NaB(C2H5) GC/MSCompoundsTrimethyltinMultiple0.010.2Derivatisation with NaB(C2H5) GC/MSMonobutyltinMultiple0.010.2Divatisation with NaB(C2H5) GC/MSDibutyltinMultiple0.010.2DibutyltinMultiple0.010.2MonophenyltinMultiple0.010.2DiphenyltinMultiple0.010.2DiphenyltinMultiple0.010.2DioctyltinMultiple0.010.2MonooctyltinMultiple0.010.2DioctyltinMultiple0.010.2DioctyltinMultiple0.010.2Perfluoroctanesulfonic acid (PFOS)1763-23-10.010.10Perfluoron-n-octanoic acid (PFOA)335-67-10.010.10Perfluoron-n-bexanoic acid (PFDA)29420-49-3, 29420-43-30.010.10Perfluoron-n-hexanoic acid (PFTHXA)307-24-40.010.10Vertorum with acetic anhydride,678-20-7111		Monomethyltin	Multiple	0.01	0.2		
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MonobutyltinMultiple0.010.2DibutyltinMultiple0.010.2TributyltinMultiple0.010.2MonophenyltinMultiple0.010.2DiphenyltinMultiple0.010.2DiphenyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2DiotyltinMultiple0.010.2Perfluorooctanesulfonic acid (PFOS)1763-23-10.010.10Perfluoron-n-octanoic acid (PFOA)335-67-10.010.10Perfluorobutanesulfonic acid (PFBS)29420-49-3, 29420-43-30.010.10Perfluoron-n-hexanoic acid (PFHxA)307-24-40.010.10Perfluorinated acti (PFHxA)678-20-711		Trimethyltin	Multiple	0.01	0.2		
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TrioctyltinMultiple0.010.2TrioctyltinMultiple0.010.2Perfluorooctanesulfonic acid (PFOS)1763-23-10.010.10Perfluoron-noctanoic acid (PFOA)335-67-10.010.10Perfluorobutanesulfonic acid (PFBS)29420-49-3, 29420-43-30.010.10Perfluoron-noctanoic acid (PFOA)29420-49-3, 29420-43-30.010.10Perfluoron-noctanoic acid (PFBS)307-24-40.010.10Perfluoron-noctanoic acid (PFBS)307-24-40.010.10Perfluoron-noctanoic acid (PFHxA)678-30.711							
2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)Perfluorooctanesulfonic acid (PFOS)1763-23-10.010.10DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)Perfluorobutanesulfonic acid (PFBS)335-67-10.010.10DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFCPerfluoro-n-hexanoic acid (PFHxA)307-24-40.010.10With acetic anhydride,							
2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)acid (PFOS)1763-23-10.010.10DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC2K. Perfluoroinated and Polyfluorinated Chemicals (PFCs)Perfluorobutanesulfonic acid (PFBS)335-67-10.010.10DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride,			Multiple	0.01	0.2		
2K. Perfluorinated and Polyfluorinated Chemicals (PFCs)Perfluorobutanesulfonic acid (PFBS)335-67-10.010.10Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC2K. Perfluorobutanesulfonic acid (PFBS)29420-49-3, 29420-43-30.010.10Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFCPerfluorobutanesulfonic acid (PFBS)307-24-40.010.10Ionic PFC: (FTOH): derivatisation with acetic anhydride,			1763-23-1	0.01	0.10		
and Polyfluorinated Chemicals (PFCs)Perfluoro-n-hexanoic acid (PFHxA)29420-49-3, 29420-43-30.010.10injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride,	2K Perfluorinated	(PFOA)	335-67-1	0.01	0.10	Ionic PFC:	
Perfluoro-n-hexanoic acid (PFHxA) 307-24-4 0.01 0.10 (FTOH): derivatisation with acetic anhydride,	and Polyfluorinated		29420-49-3, 29420-43-3	0.01	0.10	injection, LC/MS(-MS);	
			307-24-4	0.01	0.10	(FTOH): derivatisation	
8:2 FIOH 0/8-39-7 1 1 followed by GC/MS		8:2 FTOH	678-39-7	1	1		
6:2 FTOH 647-42-7 1 1 1		6:2 FTOH	647-42-7	1	1	TOTIOWED BY UC/MIS	
Di-2-ethylhexyl phthalate (DEHP) 117-81-7 10 2		(DEHP)	117-81-7	10	2		
Dimethoxyethyl phthalate 117-82-8 10 2	2L. Phthalates (including all other		117-82-8	10	2		
(including all other Di-n-octyl phtnalate 117-84-0 10 2 18856		5 1	117-84-0	10	2	18856	
acid) Di-iso-decyl phthalate (DIDP) 26761-40-0 10 2 Dichloromethane extraction GC/MS		Di-iso-decyl phthalate (DIDP)	26761-40-0	10	2		
Di-iso-nonyl phthalate (DINP) 28553-12-0 10 2		Di-iso-nonyl phthalate	28553-12-0	10	2		
Di-n-hexyl phthalate 84-75-3 10 2			84-75-3	10	2		

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	(DnHP)				
	Dibutyl phthalate (DBP)	84-74-2	10	2	_
	Butyl benzyl phthalate (BBP)	85-68-7	10	2	
	Dinonyl phthalate (DNP)	84-76-4	10	2	
	Diethyl phthalate (DEP)	84-66-2	10	2	
	Di-n-propyl phthalate (DPRP)	131-16-8	10	2	
	Di-iso-butyl phthalate (DIBP)	84-69-5	10	2	
	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	2	
	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	2	
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	2	
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	2	
	Benzo[a]pyrene (BaP)	50-32-8	1	0.2	
	Anthracene	120-12-7	1	0.2	
	Pyrene	129-00-0	1	0.2	
	Benzo[ghi]perylene	191-24-2	1	0.2	
	Benzo[e]pyrene	192-97-2	1	0.2	
	Indeno[1,2,3-cd]pyrene	193-39-5	1	0.2	
	Benzo[j]fluoranthene	205-82-3	1	0.2	_
2M. Poly Aromatic	Benzo[b]fluoranthene	205-99-2	1	0.2	DIN 38407-39
Hydrocarbons	Fluoranthene	206-44-0	1	0.2	Solvent extraction
(PaHs)	Benzo[k]fluoranthene	207-08-9	1	0.2	GC/MS
(i uiis)	Acenaphthylene	208-96-8	1	0.2	
	Chrysene	218-01-9	1	0.2	
	Dibenz[a,h]anthracene	53-70-3	1	0.2	
	Benzo[a]anthracene	56-55-3	1	0.2	
	Acenaphthene	83-32-9	1	0.2	
	Phenanthrene	85-01-8	1	0.2	
	Fluorene	86-73-7	1	0.2	
	Naphthalene	91-20-3	1	0.2	
	Benzene	71-43-2	1	2	
2N. Volatile Organic Compound	Xylene	1330-20-7	1	2	ISO 11423-1
	o-cresol	95-48-7	1	2	Headspace- or Purge-
(VOCs)	p-cresol	106-44-5	1	2	and-Trap-GC/MS
	m-cresol	108-39-4	1	2	
	Temperature	-	N/A	N/A	Apply the standard
	TSS COD	—	N/A	N/A N/A	methods that best apply
14 Convertingel			N/A N/A	N/A	to the region (ISO, EU,
1A. Conventional Parameters	Total-N			N/A	US, China), please refer to ZDHC Wastewater
r arameters	pH Color [m ⁻¹] (436nm;	_	N/A N/A	N/A N/A	Guidelines for more
	525nm; 620nm)				details on the testing
	BOD5	—	N/A	N/A	method and the levels

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Ammonium-N	-	N/A	N/A	(Foundational,
	Total-P	—	N/A	N/A	Progressive, and
	AoX	_	N/A	N/A	Aspirational).
	Oil and Grease	—	N/A	N/A	
	Phenol	—	N/A	N/A	Cyanide: With
	Coliform(bacteria/100ml)	—	N/A	N/A	reference to APHA
	Persistent Foam	_	Not	Not	4500 CN—B,C&E and
			visible	visible	followed by UV
	ANIONS	T			analysis
	Cyanide(CN-)	Various (incl. 57-12-5)	0.02	1	
	Sulfide		N/A	N/A	
	Sulfite		N/A	N/A	
				t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (mg/L) / (ppm)	Sludge (mg/kg) / (ppm)	Name of the testing method
	Antimony(Sb)	7440-36-0	0.001	N/A	Various
	Chromium(Cr), total	7440-47-3	0.001	N/A	Acid Digestion with
	Cobalt(Co)	7440-48-4	0.001	N/A	ICP analysis
	Copper(Cu)	7440-50-8	0.001	N/A	
	Nickel (Ni)	7440-02-0	0.001	N/A	please refer to ZDHC
	Silver (Ag)	7440-22-4	0.001	N/A	Wastewater Guidelines
1B. Conventional	Zinc(Zn)	7440-66-6	0.001	N/A	for more details on the
Parameters -	Arsenic (As)	7440-38-2	0.001	2	testing method and the
METALS	Cadmium(Cd)	7440-43-9	0.0001	2	levels (Foundational,
	Chromium VI(CrVI)	18540-29-9	0.001	2	Progressive, and
	Lead(Pb)	7439-92-1	0.001	2	Aspirational).
	Mercury (Hg)	7439-97-6	0.00005	0.2	Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis
3. Conventional Parameters	Dry mass (total solids)	-	N/A	N/A	US EPA 160.3 / 209A

Note / Key :

ppm = part(s) per million; ppb = part(s) per billion U. S. EPA = United States Environmental Protection Agency APHA = American Public Health Association



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APPENDIX C – Onsite Field Data Record Sheet

	F	IELD DATA F	RECORD ON	VZERO DIS	CHARGE S	AMPLE		CPSD-AN-0 Issue Date:	00613-DATA	
1000									/ersion No.: 14	
VERITAS								ine: Analytic		
General Data Laboratory Sample Number: Client Name Field Contact Person: Project (Facility Name and Address). Sample Location / Description: Sample Identification: Sample Identification: Sample Type: Name of Sampler: Discharge mode: Date of collection:		AKPOLAT LOJI TUGCE IMIR FEVZIPAŞA NE BEFORE TREA Zero discharge Composite Sam Direct discharge	FEVZIPAŞA NEIGHBORHOOD DERMAN STREET NO-25-25 /A-25/ B SILİVRI/ISTANBUL BEFORE TREATMENT Zero discharge with sampling plan Composite Sample							
Factory Type: Field Data for Wastew Arrival Time:	ater	Dyeing / Printing	g / Washing / Fin	in one					_	
Field Parameters		pH :		Departure Time		Color		Flourester	6	
Control No. of field equi	oment	Pit.		Temp :	°C	Color :		Flow rate :	(volume/mi	
Factory with effluent trea			6	/es)				No		
			Incoming water			1				
Sample matrix:		x	Wastewater be							
			Wastewater aft	er treatment - wa	ter at discharge	point				
Sampler container num	per									
		1	2	3	4	5	6	7	8	
Recording time	ID									
	Time	10:50	11:50		13:50	14:50	15:53			
pH :		7,11	7,22	7.13	7.13	6,94	6,78		_	
Temp (°C) : Color (visual estimation	L.	39.8	39.0	38,5	38,2	37,9	37,2			
Flow rate (volume/time)	ь. 	Beipe	Beije	Beije	Beije	Beije	Beipe		-	
Volume collected, mL			-				~			
Total volume collected			Remark: Total y	volume collected i	must be greater t	han total of same	e size required			
					grouter t	num total of oursp	ie oize required			
Analysis Required and Tests (ZDHC	I Preservation Method MRSL Parameters)	Test required	Total of		Type of contain	er	P	reservation me	thod	
	1. Phthalate	(v) V	sample size	-75- 21 001001001			Preservation method			
Combined test cr Individual test (Remark 4)	2 Chlorobenzenes, Chlorobuene & PAH 3. SCCPs 4. APS	4 4 4	1000 mL total or 1000 mL each							
5. APEOs			100 1	-						
			100 mL	-						
	6. Chlorophenois & Cresols		100 mL	-						
7. Flame retardant		V	500 mL	-			Without adding acid Store sample at 2-8°C			
8. Dyes		1	10 mL	Amber Glass,washed with nitric acid,				store sample at 2	-8-0	
9. Glycol		V	50 mL							
10. *Pesticides			1000 mL							
11. *Nitrosamine			10 mL							
12. Banned Azodyes		V	2000 mL]			S			
13. *Free primary aroma	atic amines		500 mL	1						
14. Organotin Compour	ds	V	500 mL	1			-			
15. VOC & Halogenated	Solvents (Remark 6)	1	10 mL	1			Fill to full contain	er without air gap	; acidify to pH 2 v	
16. PFCs (Remark 6)	,			PE	washed with nest	icide	HCI	and store sample	at 2-8°C	
io. In Co (Remark o)		V	2 mL	PE, washed with pesticide grade Acetone				Without adding acid Store sample at 2-8°C		

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1 - 10					CPSD-AN-00613-DATA 04		
	FIE	LD DATA F	RECORD ON	ZERO DISCHARGE SAMPLE	Issue Date:		
BUREAU		(COMP	OSITE / IN	DIVIDUAL SAMPLING)	Version No.: 14		
					Business Line: Analytical		
Tests (Conve	ntional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method		
Combined test or	17. Total suspened solids (TSS)		2000 mL total				
(Remark 4) 18. Total dissolved solids (TDS)			or 2000 mL each	terter Ole	Without adding acid		
19. 5-day Biochemical C	xygen Demand (BOD5)		1000 mL	Amber Glass, washed with nitric acid,	Store sample at 2-8°C		
20. Colour			100 mL	e ou - j. e. j.			
21. Heavy Metals excep	t Cr(VI) & Total-P (Remark 6)	1	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO3 and store at 2-8°C		
22. Cyanide			500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃ , and store sample at 2-8°C		
23. Cr(VI)		٨	95 mL		Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C		
24. Chemical oxygen demand (COD)			150 mL		Solution Server. Glore sample at 2-0 C		
25. Phenois			500 mL	Amber Glass; washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C		
26. Oil and Grease & Total Hydrocarbon			1000 mL				
27. *Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄ and store sample at 2-8°C		
28. Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C		
29. Total Coliform (Remark 6)			125 mL	PE, clean, sterile,			
30. Faecal Coliform (Ren	nark 6)		125 mL	non-reactive	Add 0.05 ml of 10% Na2 ₉ 2O ₃ Store sample at 2-8°C		
31. Persistent foam			N.A.	Foam higher than 45 cm (visu	ual estimation): Yes / No		
32. Sulfite			100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C		
33. Total-N			100 mL		otoro dampie ar 2-0 C		
34. Ammonium-N			500 mL		Acidify to pH 2 with H ₂ SO ₄		
35. Adsorbable organically bound halogens (AOX) 36. Acute aquatic toxicity: .uminus Bacteria; Fish Egg; Daphne; Alage; 37. Sulphate			100 mL		Store sample at 2-8°C		
			1000 mL	Amber Glass;washed with nitric acid;			
			100 mL		Without adding acid Store sample at 2-8°C		
8. Chloride			100 mL		erere entrifie at 2-0 O		
9. Others:							
Observation/ Remark:							

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request. 3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35

Scope of synthetic leather industry: Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38

Scope of MMCF: Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36

Scope or mmore: Parameter 2, 10, 17, 19/21, 20/20, 20, 30/00 Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request. 4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by:

Comment from factory

Date: 07.10.2021

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative:

Full Name: Tugge inde ERDOGAN

Date: 07/10/2021

AKPOLAT LOJISTIK TEKSTIL VE INŞAAT ITHALAT İHBACAT SAN. TİC. LTD. ŞTI. Değirmerköy, Fevzkəssa Mah. Derman Sok. 25.4. Silva (JSTANBUL ITO: 747281 SILIVRI VD: 034 036 9539 MERSIS NO. 0034-0369-5390-0013

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								CPSD-AN-0	0613-DATA 04	
(16)(17)	F	IELD DATA R	ECORD ON	ZERO DIS	CHARGE S	AMPLE		Issue Date:		
BUREAU		(COMF	POSITE / IN	DIVIDUAL S	SAMPLING)			Version No		
VERITAS								Business L	ine: Analytical	
General Data										
Laboratory Sample Nun	nber:	72210990169								
Client Name:		AKPOLAT LOJÍ	STİK TEKSTİL V	e înș. îth. îhr.	SAN. TÍC. LTD. S	STL				
Field Contac: Person:		TUGCE IMIR			Phone No: 054	1			-	
Project (Facility Name a	nd Address):	FEVZIPAŞA NE	IGHBORHOOD	DERMAN STREE			ANBUL			
Sampling Location / Des	scription:	AFTER TREAT							-	
Sample Identification:		Zero discharge	with sampling pla	an						
Sample Type:		Composite Sam	ple / Grab sampl	le (Please delete	as appropriate)					
lame of Sampler:		En.	OPA	E C					<u></u>	
Discharge mode:		Direct discharge t	o environment (Sp	ecify destination: F	liver, Sea, Stream.) OR Indirect dis	charge to sewage t	reatment plant		
Date of collection:		07.10.2	021			\sim			-	
Factory Type:		Dyeing / Printing	/ Washing / Fini	ishing / Others (p	lease specify):					
		*Note: It would be	selected more that	in one					-	
Field Data for Wastewa	ater					T		-		
Arrival Time: Field Parameters				Departure Time						
		pH :		Temp :	°C	Color :		Flow rate :	(volume/min)	
Control No. cf field equipment				<u> </u>						
actory with effluent trea	itment plant:			'es				No		
Sample matrix:			Incoming water							
Sample matrix.			Wastewater before treatment							
Sampler container numb	201	×	Wastewater afte	er treatment - wa	ter at discharge p	point				
sampler comainer num										
	ID	1	2	3	4	5	6	7	8	
Recording time	Time	11:00	11100	10.	1000	104	10.			
H :	Inno	7 91.	7.94	12:00	7.96	12:00	16100			
emp (°C) :		727	7.94	7.76	32.9	7,8+	8,02			
Color (visual estimation)	:	Ric	Rai	25.0	0	244	31,0			
low rate (vo ume/time)		Deipe	Deipe	Deije	Berge	Beige	Beige			
/olume collected, mL										
fotal volume collected			Remark: Total v	I olume collected r	nust be greater t	han total of same	le size required			
	Preservation Method	Test required	Total of	1						
Tests (ZDHC I	MRSL Parameters)	(v)	sample size	Type of container Preservation metho			thod			
	1. Phthalate	V								
Combined test	2. Chlorobenzenes, Chlorotoluene & PAH	×	1000 mL total							
Individual test	3. SCCPs		or 1000 mL each							
(Remark 4)			1000 mil each							
	4. APS	1							Contraction of the second	
APEOs		1	100 mL							
6. Chlorophenois & Cres	ols	*	100 mL							
7. Flame retardant		1	500 mL	Amber Glass,washed with nitric acid,						
3. Dyes 9. Glycol		1	10 mL				8	Without adding acid Store sample at 2-8°C		
							1000			
		1	50 mL				1.1.1			
0. *Pesticides			1000 mL							
11. *Nitrosamine			10 mL							
12. Banned Azodyes		V	2000 mL							
13. *Free primary aromatic amines										
4. Organotin Compound			500 mL							
			500 mL							
5. VOC & Halogenated	Solvents (Remark 6)	1	10 mL				Fill to full containe HCI a	er without air gap; ind store sample a	acidify to pH 2 with at 2-8°C	
6. PFCs (Remark 6)		V	2 mL	PE,	washed with pesti grade Acetone	cide		Without adding ac	id	
					and Accine		S	Without adding acid Store sample at 2-8°C		

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E LA					CPSD-AN-00613-DATA		
	FIE			ZERO DISCHARGE SAMPLE DIVIDUAL SAMPLING)	Issue Date:		
BUREAU		(COMP	OSITE / INL	Version No.: 14			
VENILAS					Business Line: Analytica		
Tests (Conve	ntional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method		
Combined test or Individual test (Remark 4) (TSS) 17. Total suspened solids (TSS) 18. Total dissolved solids (TDS)		٨	2000 mL total				
			2000 mL each	Amber Glass, washed with nitric acid.	Without adding acid		
19. 5-day Biochemical (Dxygen Demand (BOD5)	1	1000 mL		Store sample at 2-8°C		
20. Colour		1	100 mL				
21. Heavy Metals excep	ot Cr(VI) & Total-P (Remark 6)	1	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO3 and store at 2-8°C		
22. Cyanide		V	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃ , and store sample at 2-8°C		
23. Cr(VI)		٨	95 mL		Filter by 0.45µm filter in field, fill to full container without air ager, indiurt pH to 0.9.9.5 by adding ammonium buffer. Store sample at 2.4°C Acidity to pH 2 with H ₂ SO ₄ Store sample at 2.4°C		
24. Chemical oxygen demand (COD) 25. Phenols 26. Oil and Grease & Total Hydrocarbon		1	150 mL	Amber Glass; washed with nitric acid			
		V	500 mL				
		1	1000 mL				
27. *Formaldehyde			25 mL		Fill to full container without air gap; acidify to pH 2 wit H ₂ SO ₄ and store sample at 2-8°C		
28. Sulfide (Remark 5)		٧	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C		
29. Total Coliform (Remark 6)		1	125 mL	PE, clean, sterile.	Add 0.05 ml of 10% Na2 ₆ 2O ₃ Store sample at 2-8°C		
30. Faecal Coliform (Remark 6)			125 mL	non-reactive			
31. Persistent foam		4	N.A.	Foam higher than 45 cm (vis	ual estimation): Yes / No		
32. Sulfite		4	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 2-8°C		
33. Total-N		1	100 mL				
34. Ammonium-N 35. Adsorbable organically bound halogens (AOX) 36. Acute aquatic toxicity: Luminus Bacteria; Fish Egg; Daphne; Alage; 37. Sulphate		1	500 mL		Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C		
		1	100 mL				
			1000 mL	Amber Glass;washed with nitric acid;			
			100 mL		Without adding acid Store sample at 2-8°C		
38. Chloride			100 mL				
39. Others:							

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35

Scope of synthetic leather industry: Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38

Scope of MMCF: Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36

Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.
5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by:

Qe Comment from factory

Date: 07.10.2021

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signatory of Factory Representative:

72210990169-AKPOLAT-after

Full Name: Tuge I Mile ERDOGAN

Date: 07/10/2021

AKPOLAT LOJISTIK TEKSTIL VE INSAAI ITHALAT IHPACAT SAN. TIC. LTD. ST DegirmenKöv/Fevzipászivan, Derman Sok. 25-A SilvurkiSTATIBUL ITO: 747get SILIVIRI VD: 034 036 9539 MERSIS NO. 0034-0369-5390-0013

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APPENDIX D – Limitation Value of Legal Requirements

TABLO I: DEŞARJ LİMİTLERİ

ATIKSULARIN ATIKSU ALTYAPI TESİSLERİNE DEŞARJINDA ÖNGÖRÜLEN ATIKSU STANDARTLARI

Parametre	Aritma İle So	ı Sistemleri Tam nuçlanan Atıksu Tesislerinde	Kanalizasyon Sistemleri Ön Arıtma + Derin Deniz Deşarjı İle Sonuçlanan Atıksu Altyapı Tesislerinde		
Sıcaklık (°C)			50		
pH	6		6 - 12		
Askıda katı madde (mg/L)		500	350		
Yağ ve gres (mg/L)	150		50		
Kimyasal oksijen ihtiyacı (KOİ) (mg/L)		1000	600		
Sülfat (SO4 ⁼) (mg/L)		1700	1700		
Toplam sülfür (S) (mg/L)	2		2		
Fenol (mg/L)	10		10		
Toplam fosfor (P) (mg/L)	-		10		
Arsenik (As) (mg/L)	3		10		
Toplam siyanür (Toplam CN ⁻) (mg/L)		10	10		
Toplam kurşun (Pb) (mg/L)		3	3		
Toplam kadmiyum (Cd) (mg/L)		2	2		
Toplam krom (Cr) (mg/L)		5	5		
Toplam civa (Hg) (mg/L)		0.2	0.2		
Toplam bakır (Cu) (mg/L)		5	5		
Toplam nikel (Ni) (mg/L)	5		5		
Toplam çinko (Zn) (mg/L)	10		10		
Cl ⁻ (Klorür) (mg/L)	1	5000	-		
Metilen mavisi ile reaksiy yüzey aktif maddeleri(MB/		Biyolojik olarak parçalanması Türk Standartları Enstitüsü standartlarına uygun olmayan maddelerin boşaltımı prensip olarak yasaktır.			



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Is	ISTANBUL BÜYÜK tanbul Su ve Kanalizasyo Havza Koruma ve Ko	.C. ŞEHİR BELEDİYESİ on İdaresi Genel Müdürlüğü ntrol Dairesi Başkanlığı		
561	DEŞARJİZ	IN BELGES	IZIN BELGE	NO:2018 - Y - 77
ETME ADI	AKPOLAT LOJISTIK	TEKSTIL VE INŞAAT ITHALAT İH	ISTANBUL	
ETME ADRES	FEVZIPAŞA MAH. DEI	RMAN SOK NO:25/A-25/B SILIVRI	in of the board	
ETIM SEKTÖRÜ	TEKSTIL			
RITMA TESISI TIPI	KIMYASAL			
IKSUDEBISI(m3/gün)	110,000	OF OU FAT PH		
KIP EDILEN PARAMETRELER	KOI, AKM, TOP-SÜLF	UR, SULFAT, FI		
FTA-ADA-PARSEL NUMARASI	F20D16A2D-275-1 CANTA ATIKSU TOPI	AMA HAVZASI		
AVZASI	ÇANTA ATIK SUTUP	OLOJIK ATIKSU ARITMA TESISI		4
TIK SU MANSABI	DEGIRMENKUT			
RITMA ÜNITELERI		Anaerobik Sistem	Kun	n Filtresi
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Dengeleme	Oksidasyon	Nitrifikasyon		n
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]Yağ Ayırıcı	🗆 Aktif Çamur	☑ Çamur Filtræyonu		ariastirma
7	🗌 Damlatmalı Filtre	🗌 Çamur Çürütücü		
IGER Aritma tesisinden çıkan çan	nurlar,yürürlükte olan mev	vzuat hükümlerine göre uzaklaştır	II ACAK III .	
ARDIMCI ÜNİTELER				Yok
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	ál car		∨ar□	Yok
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Atıksu geri kazanım ve kullanımı Bu belge,işletmenin 20/06/2018 tari Kanalizasyona Deşarj Yönetmeliği	h ve 318350 sayılı başvuru: " hükümlerine göre verilm	su üzerine, verniş tarmınde yurur t iştir.	a iski võnetmelik	larindeki
🗹 Atıksu arıtma tesisinin bulunduğu kriterleri sağladığı tespit edilmiştir.	ı ve usulüne uygun olarak işl	etildiği,çıkış suyu parametrelerinin d	maliklerindeki kri	terleri
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Verilen bilgilerin doğruluğundan işli Bu belge, işletmenin atıksuları ile AKDY madde 10-(1) hükmü geret	etme sorumludur. ilgili verilmiş olup, bulunduğu ği Deşarj İzin Belgesi GSMR (ı yapıya yasallık kazandırmaz. görüşü yerine geçer.		
ÖNEMLİ UYARI		naddelerinde belirtilen zararlı atıklar	hiçbir şekilde kan	alizasyon
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